

Serial No. 10/069,732

ASA-1074

Amendment

Response to Office Action mailed May 8, 2009

## ABSTRACT

In an information recording/reproducing method performing a thermo-magnetic recording, a tracking offset value of a recording light spot and/or a tracking offset value of a magnetic flux detecting element is changed in accordance with a radial position at which a tracking is performed at the present time, to make a direction of a magnetic wall of a recording magnetic domain in accord with a longitudinal direction of the magnetic flux detecting element. ~~Or Alternatively, a shape of a heated area is changed to be in accord with the direction of the magnetic flux detecting means at respective radial position, to make the direction of the magnetic wall of the recording magnetic domain in accord with the longitudinal direction of the magnetic flux detecting element. The direction of the magnetic domain recorded at respective radial position on the disk can be made in accord with the direction of the magnetic flux detecting means, to increase a recording density over the whole range of the disk. As a result of this, a recording capacity per one medium is increased to increase a recording capacity of the whole of a storage system.~~